ORDER NO. HAD8708270C1
A2

Service Manual

Stereo Integrated Amplifier

Amplifier

SU-AV700

Color

(K)...Black Type

Color	Area
(K)	[M] ..... U.S.A.

System

SC-AV700

SPECIFICATIONS (IHF' 78)

■ AMPLIFIER SECTION

Rated minimum sine wave RMS power output
20 Hz~20 kHz both channels driven
0.05% total harmonic distortion
110W per channel (8 ohms)

1 kHz continuous power output
both channels driven
0.05% total harmonic distortion
110W per channel (8 ohms)

Dynamic headroom 1.1 dB (8 ohms)

Total harmonic distortion
rated power at 20 Hz~20 kHz 0.05% (8 ohms)
half power at 20 Hz~20 kHz 0.04% (8 ohms)
half power at 1 kHz 0.03% (8 ohms)

SMPTE intermodulation distortion
0.05% (8 ohms)

Frequency response
PHONO RIAA standard curve ±0.8 dB
TUNER, CD/AUX, TAPE, TV
10 Hz~80 kHz, −3 dB

Input sensitivity
PHONO 0.4 mV (2.5 mV, IHF '66)
TUNER, CD/AUX, TAPE, TV
15 mV (150 mV, IHF '66)

S/N (IHF,A)
PHONO 71 dB (73 dB, IHF '66)
TUNER, CD/AUX, TAPE, TV
75 dB (94 dB, IHF '66)

Maximum input voltage
PHONO 128 mV (135 mV, 1 kHz)

Input impedance
PHONO 47 kilohms
TUNER, CD/AUX, TAPE, TV 33 kilohms

Tone controls
BASS 50 Hz, +10 dB~−10 dB
TREBLE 20 kHz, +10 dB~−10 dB
Super bass 80 Hz, +6 dB

Output voltage
TAPE REC OUT 150 mV

Low frequency damping factor 50 (8 ohms)

Load impedance
MAIN or REMOTE 8~16 ohms
MAIN and REMOTE 8~16 ohms

■ GENERAL

Power consumption 360W, 470 VA
Power supply AC 120V, 60 Hz
Dimensions (W×H×D) 430 × 119 × 240 mm
(16-15/16" × 4-11/16" × 9-7/16")
Weight 7.0 kg (15.4 lb.)

Note:
Total harmonic distortion is measured by the digital spectrum analyzer (H.P. 3045 system).
Specifications are subject to change without notice for further improvement.

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Technics

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Victoria Industrial Park
Carolina, Puerto Rico 00630

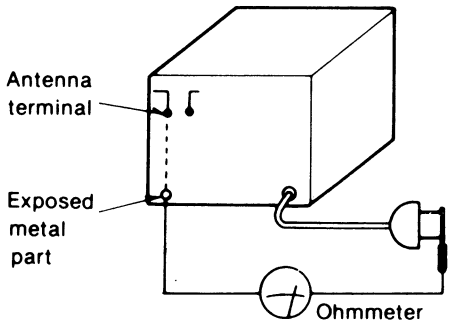
■ SAFETY PRECAUTION

1. Before servicing, unplug the power cord to prevent an electric shock.
2. When replacing parts, use only manufacturer's recommended components for safety.
3. Check the condition of the power cord. Replace if wear or damage is evident.
4. After servicing, be sure to restore the lead dress, insulation barriers, insulation papers, shields, etc.
5. Before returning the serviced equipment to the customer, be sure to make the following insulation resistance test to prevent the customer from being exposed to a shock hazard.

• INSULATION RESISTANCE TEST

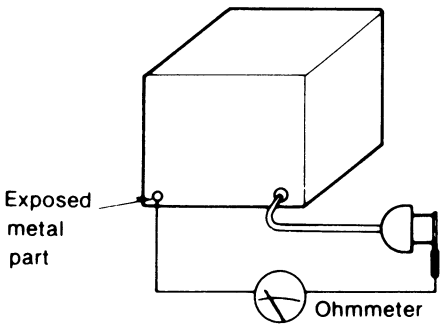
1. Unplug the power cord and short the two prongs of the plug with a jumper wire.
2. Turn on the power switch.
3. Measure the resistance value with ohmmeter between the jumpered AC plug and each exposed metal cabinet part, such as screwheads antenna, control shafts, handle brackets, etc. Equipment with antenna terminals should read between 3MΩ and 5.2MΩ to all exposed parts. (Fig. A) Equipment without antenna terminals should read approximately infinity to all exposed parts. (Fig. B)

Note: Some exposed parts may be isolated from the chassis by design. These will read infinity.



(Fig. A)

Resistance = 3MΩ—5.2MΩ



(Fig. B)

Resistance = Approx ∞

4. If the measurement is outside the specified limits, there is a possibility of a shock hazard. The equipment should be repaired and rechecked before it is returned to the customer.

■ PROTECTION CIRCUITRY

The protection circuitry may have operated if either of the following conditions is noticed:

- No sound is heard when the power is turned on.
- Sound stops during a performance.

The function of this circuitry is to prevent circuitry damage if, for example, the positive and negative speaker connection wires are "shorted", or if speaker systems with an impedance less than the indicated rated impedance of this unit are used.

If this occurs, follow the procedure outlines below:

1. Turn off the power.
2. Determine the cause of the problem and correct it.
3. Turn on the power once again after one minute.

Note

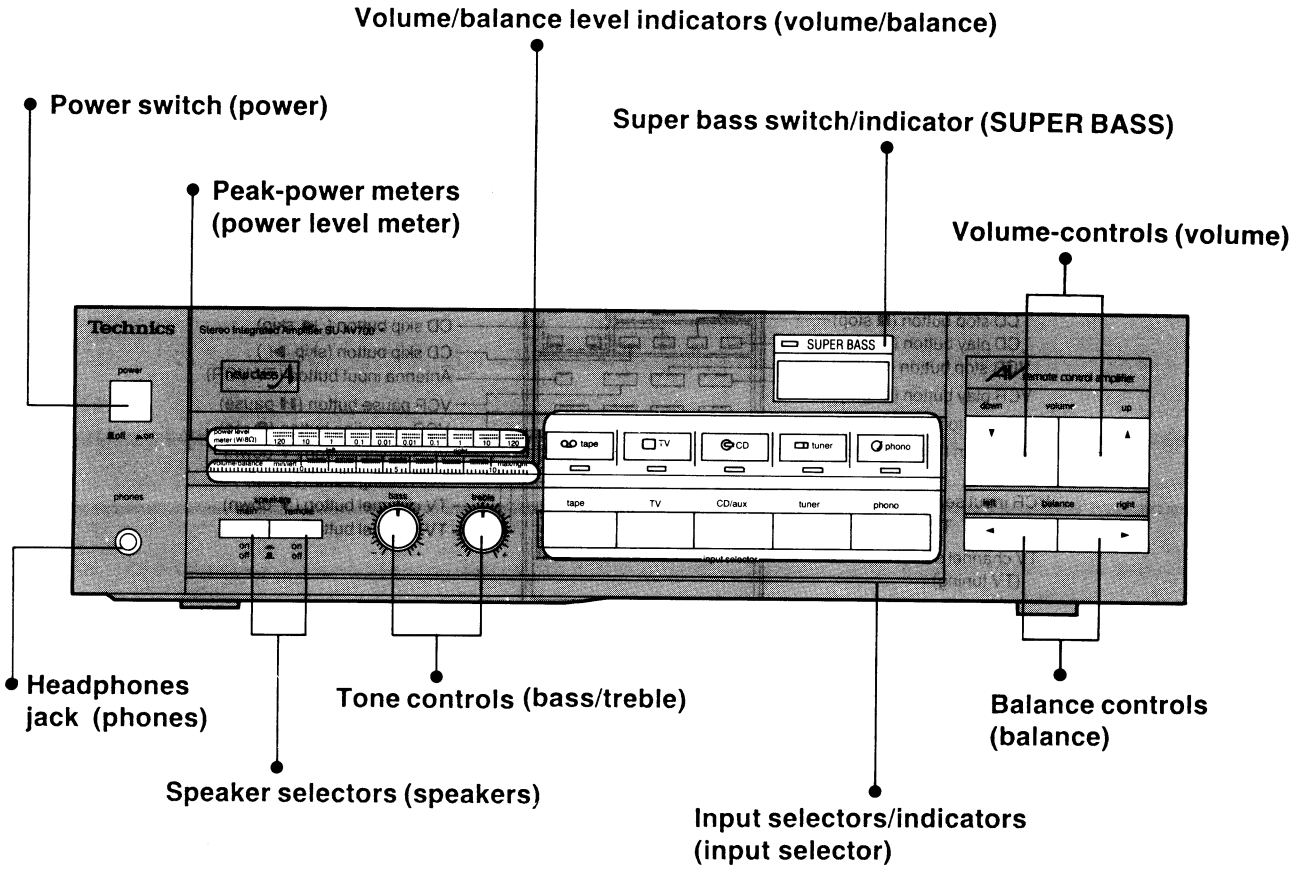
When the protection circuitry functions, the unit will not operate unless the power is first turned off and then on again.

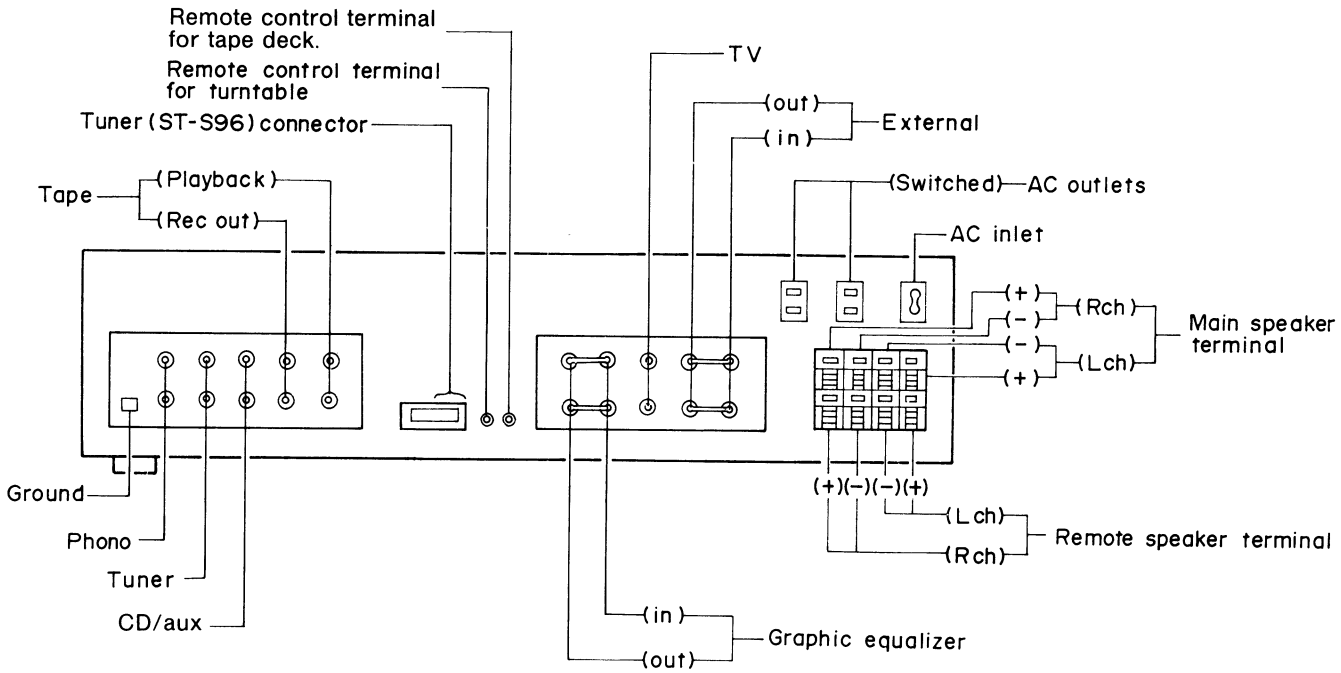
■ BEFORE REPAIR

Disconnect AC power, Discharge both Power Supply Capacitors C703 and C704 through a 10Ω, 5W resistor to ground.
DO NOT SHORT-CIRCUIT DIRECTLY (with a screwdriver blade, for instance), as this may distroy solid state devices.
After repairs are completed, restore power gradually using a variac, to avoid overcurrent.
Current consumption at 120V, 60Hz in NO SIGNAL mode should be 250 ~ 500mA.

D

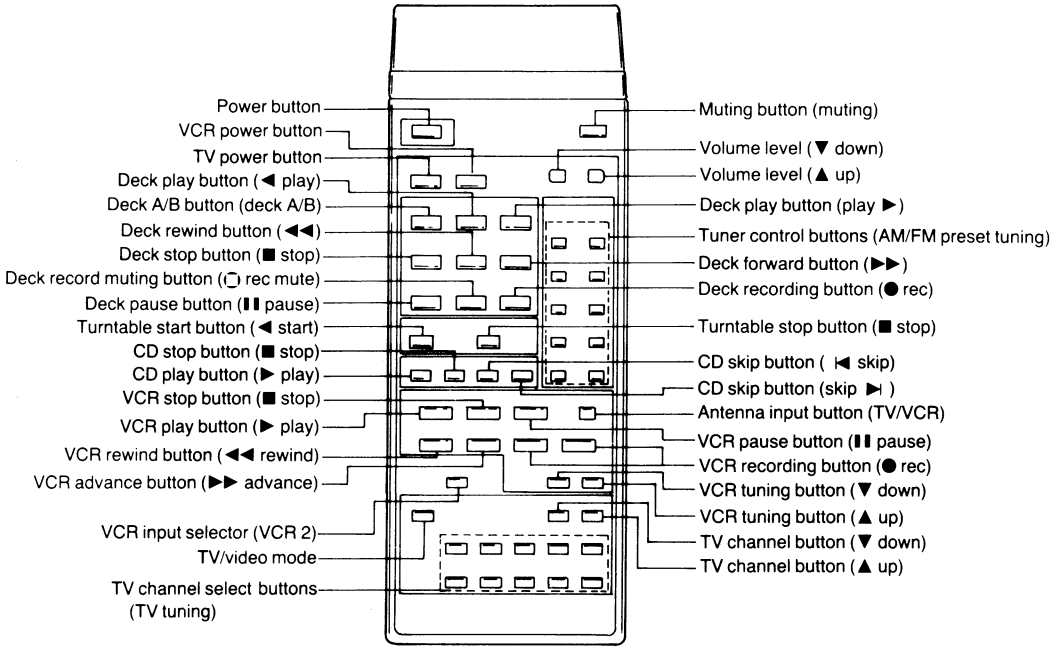
■ LOCATION OF CONTROLS



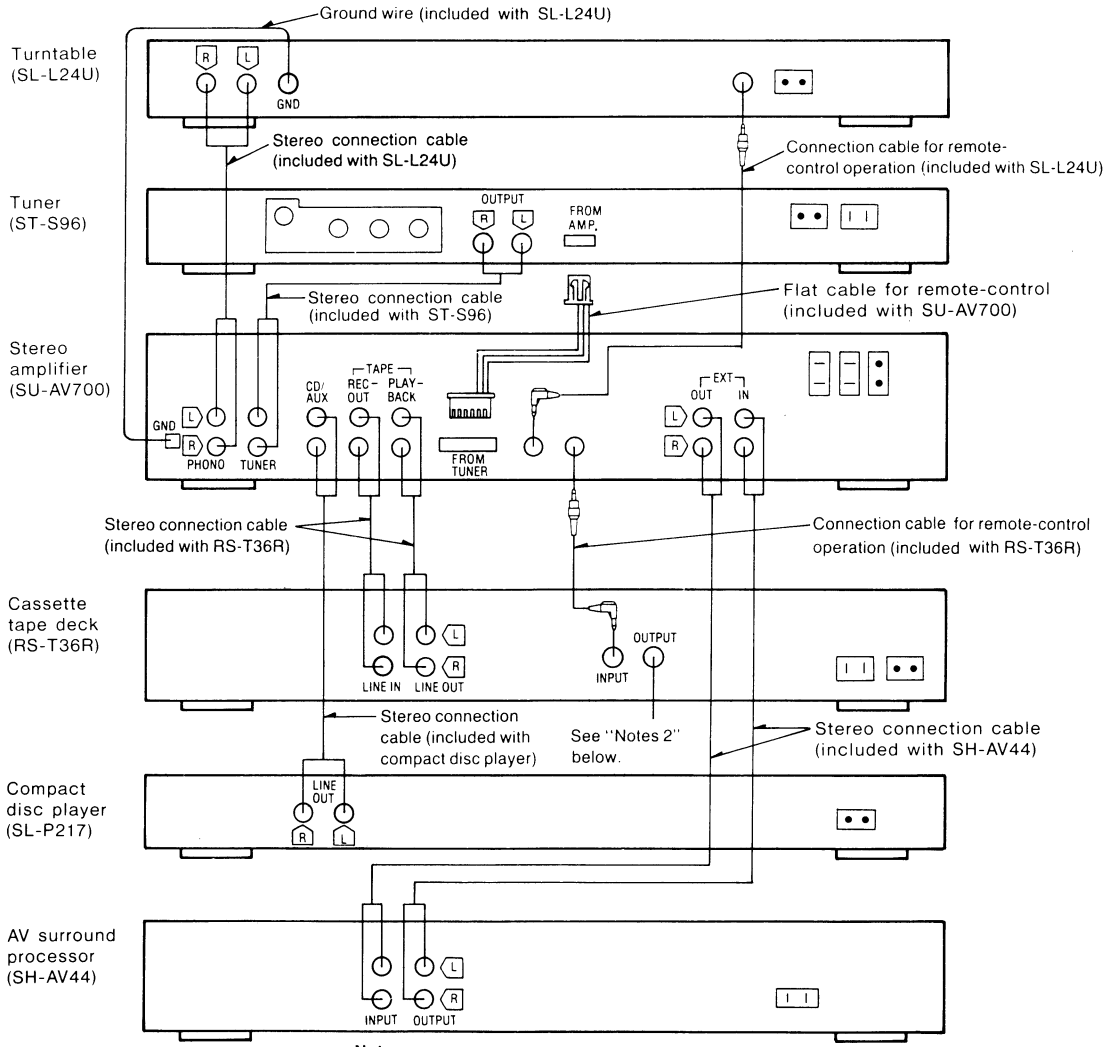


Phono input capacitance is about 100pF.

•Remote-control transmitter (EUR51153)


Power button
VCR power button
TV power button
Deck play button (◀ play)
Deck A/B button (deck A/B)
Deck rewind button (◀◀)
Deck stop button (■ stop)
Deck record muting button (rec mute)
Deck pause button (❚❚ pause)
Turntable start button (◀ start)
CD stop button (■ stop)
CD play button (▶ play)
VCR stop button (■ stop)
VCR play button (▶ play)
VCR rewind button (◀◀ rewind)
VCR advance button (▶▶ advance)
VCR input selector (VCR 2)
TV/video mode
TV channel select buttons (TV tuning)
Muting button (muting)
Volume level (▼ down)
Volume level (▲ up)
Deck play button (play ▶)
Tuner control buttons (AM/FM preset tuning)
Deck forward button (▶▶)
Deck recording button (● rec)
Turntable stop button (■ stop)
CD skip button (⏮ skip)
CD skip button (skip ⏭)
Antenna input button (TV/VCR)
VCR pause button (❚❚ pause)
VCR recording button (● rec)
VCR tuning button (▼ down)
VCR tuning button (▲ up)
TV channel button (▼ down)
TV channel button (▲ up)

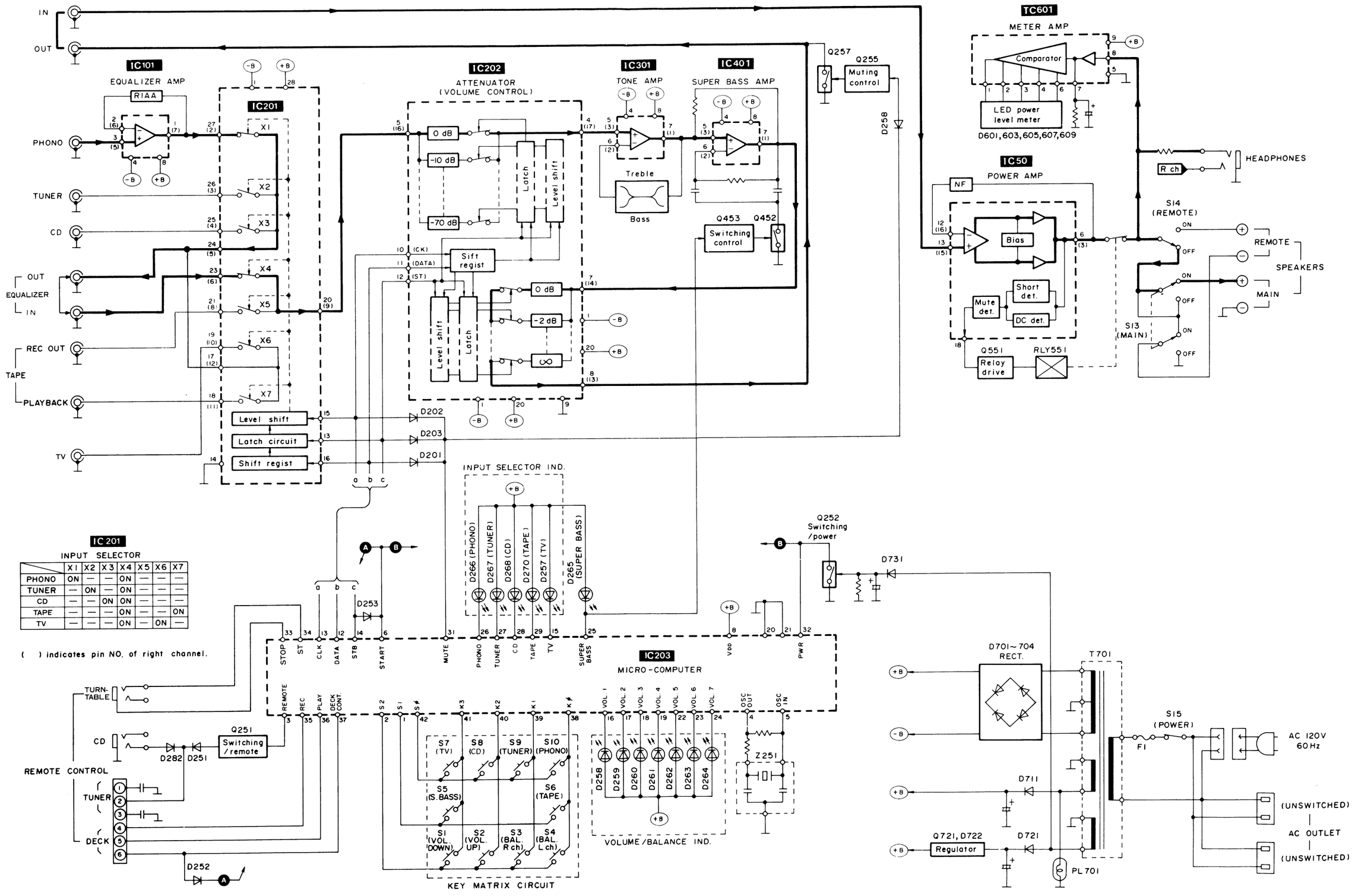
■ HOW TO CONNECTION



Notes:

1. Be sure to connect each cable and the ground wire of the SL-L24U correctly. If connections are not complete, noise may be heard or remote-control operation may be affected.
2. Connect to the remote-control terminal of the optional second compact disc player.

■ BLOCK DIAGRAM



■ DISASSEMBLY INSTRUCTIONS

Ref. No. 1	How to remove the front panel.
Procedure 1	1. Remove the top cabinet. 2. Pull out the 2 knobs (❶ , ❷). 3. Remove the 3 screws (❸ ~ ❺). 4. Remove the 2 nuts (❻ , ❼) 5. Remove the connector.

"ATTENTION SERVICER"
SOME CHASSIS COMPONENTS MAY HAVE SHARP EDGES. BE CAREFUL WHEN DISASSEMBLING AND SERVICING.

Removing the knob
Wind cellophane tape around the knob and pull in the direction of the arrow as shown in Fig. 1.

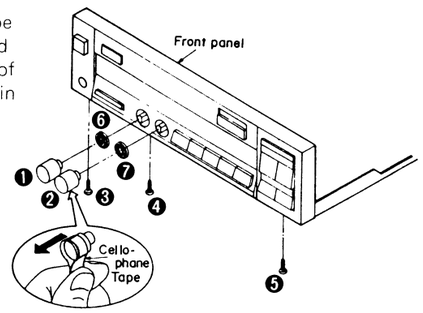


Fig. 1

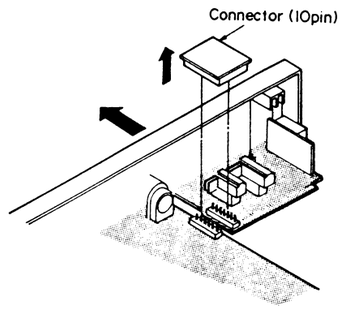


Fig. 2

Ref. No. 2	How to remove the P.C.B.
Procedure 1 →2	1. Remove the 7 screws (❶ ~ ❼). 2. Remove the LED P.C.B. 3. Remove the power switch knob. 4. Remove the screw ❽. 5. Remove the power switch P.C.B. 6. Release the tab. 7. Remove the headphones P.C.B.

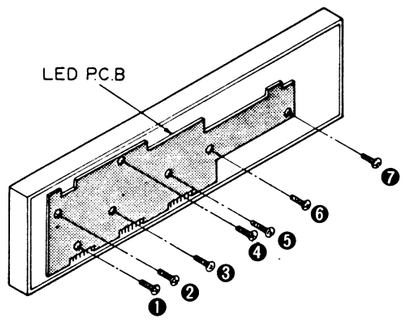


Fig. 3

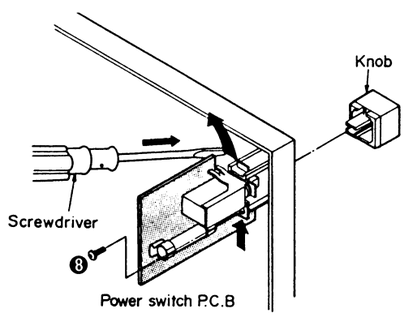


Fig. 4

Remove the knob by pushing it from behind the panel as shown in Fig. 4.

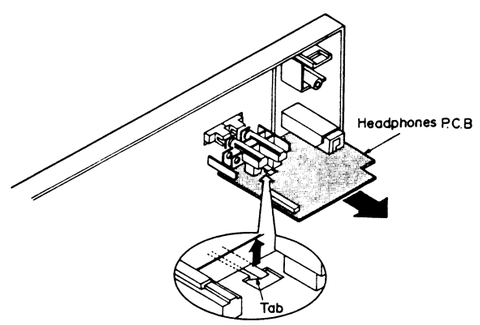


Fig. 5

Ref. No. 3	How to remove the main P.C.B.
Procedure 3	1. Remove the 10 screws (❶ ~ ❿). 2. Remove the main P.C.B.

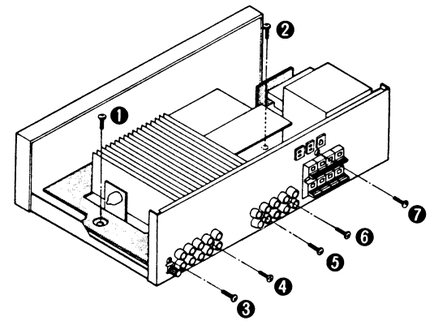


Fig. 6

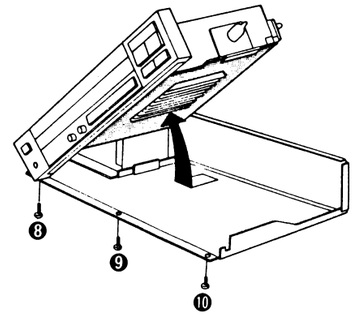


Fig. 7

Ref. No. 4	How to remove the power amplifier IC.
Procedure 3 →4	1. Unsolder the power IC. 2. Remove the 2 screws (❶ , ❷). 3. Remove the sub heat-sink. 4. Remove the 2 screws (❸ , ❹).

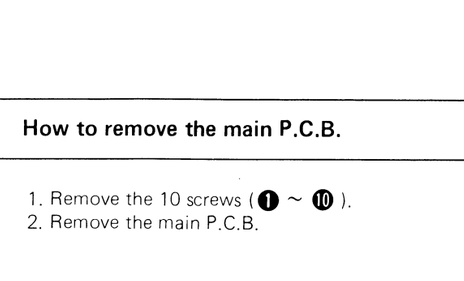


Fig. 8

- The thermal compound must be applied smoothly and evenly to assure good heat transfer between the power IC and the heat sink.
  When mounting the power IC, apply silicon thermal compound (SZZ0L15 or equivalent) to the rear of the power IC.

Ref. No. 5	How to disassemble the remote control
Procedure 5	1. Remove the Battey cover lid. 2. Remove screw ❶ . 3. Insert a flat blade screwdriver between the upper and lower covers inside the battery compartment and them slowly loosen the bottom cover.

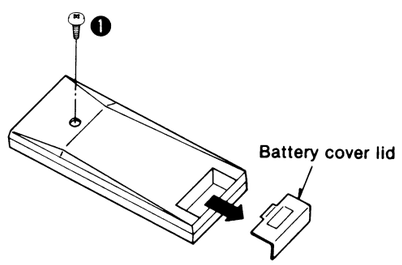


Fig. 9

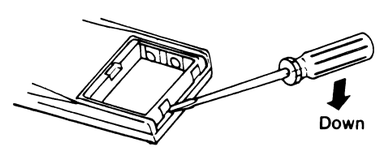
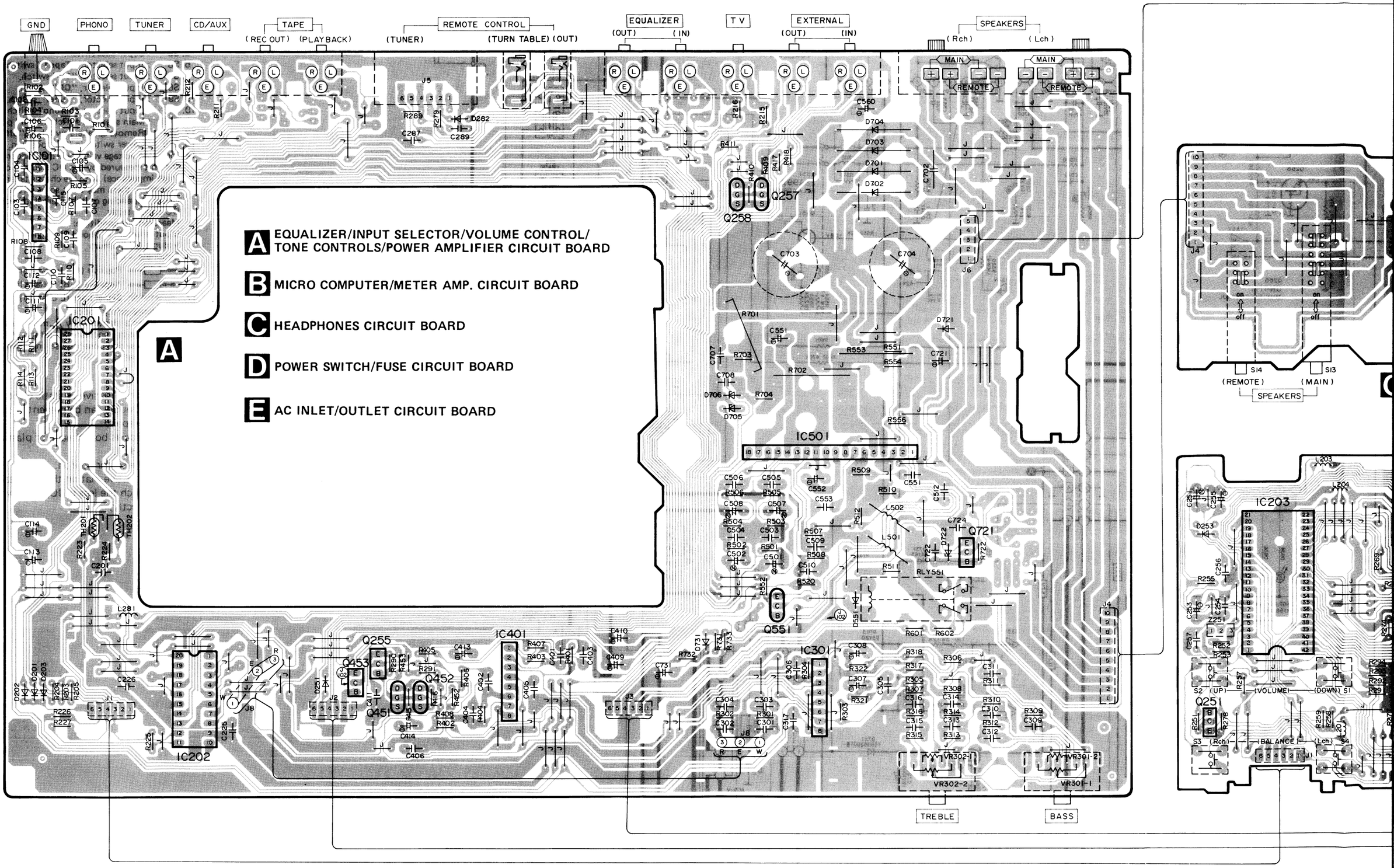
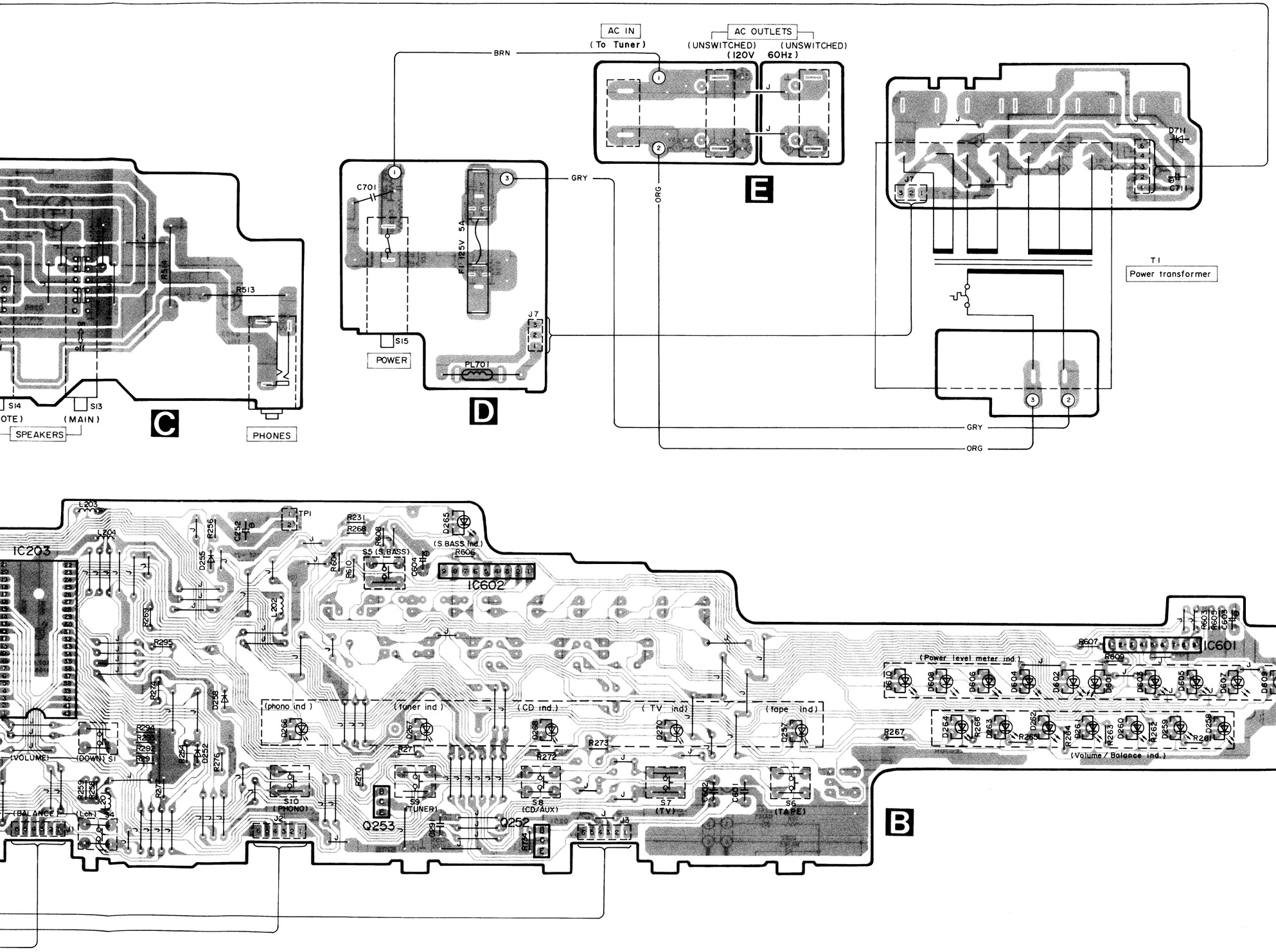


Fig. 10

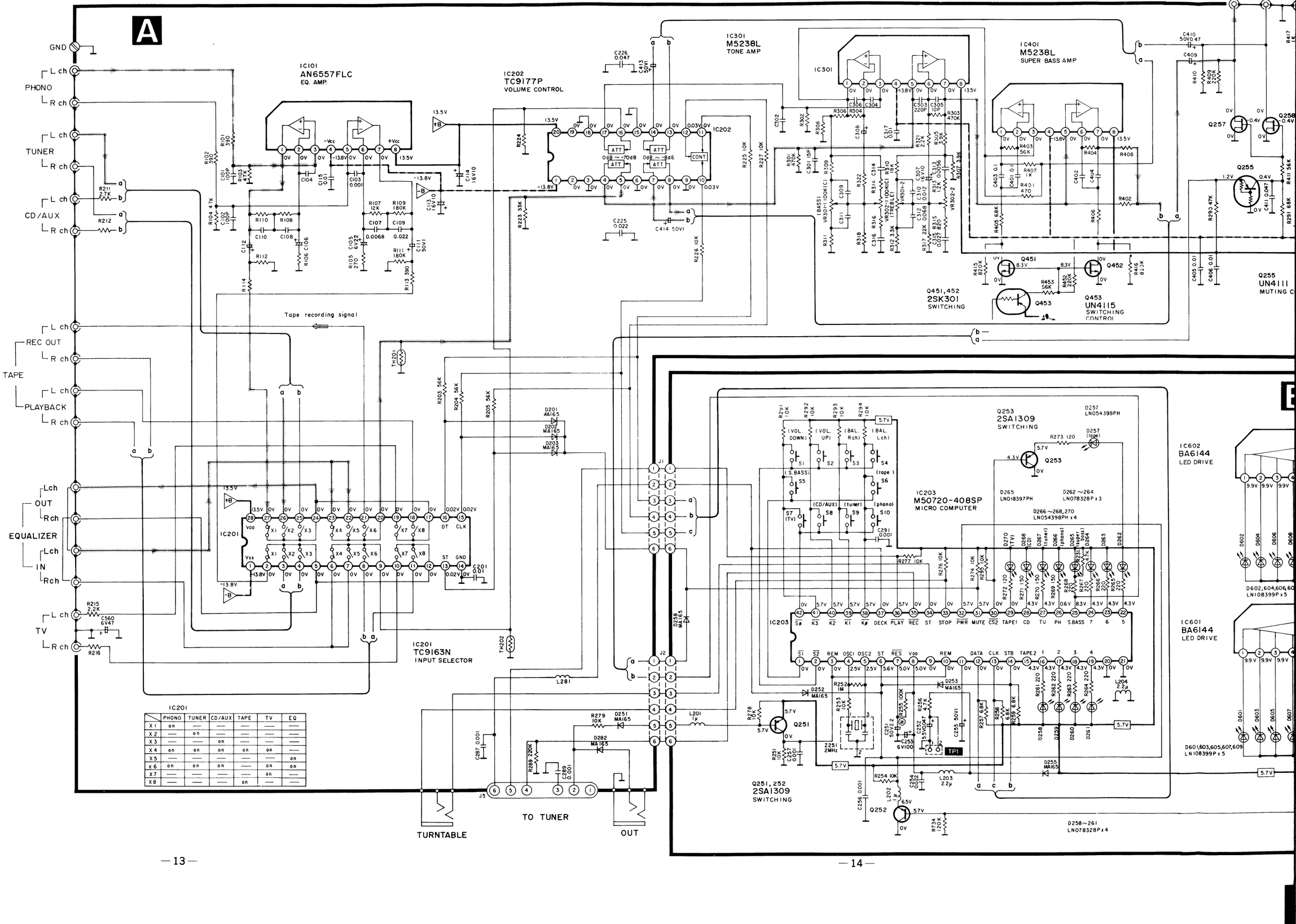
■ CIRCUIT BOARDS AND WIRING CONNECTION DIAGRAM



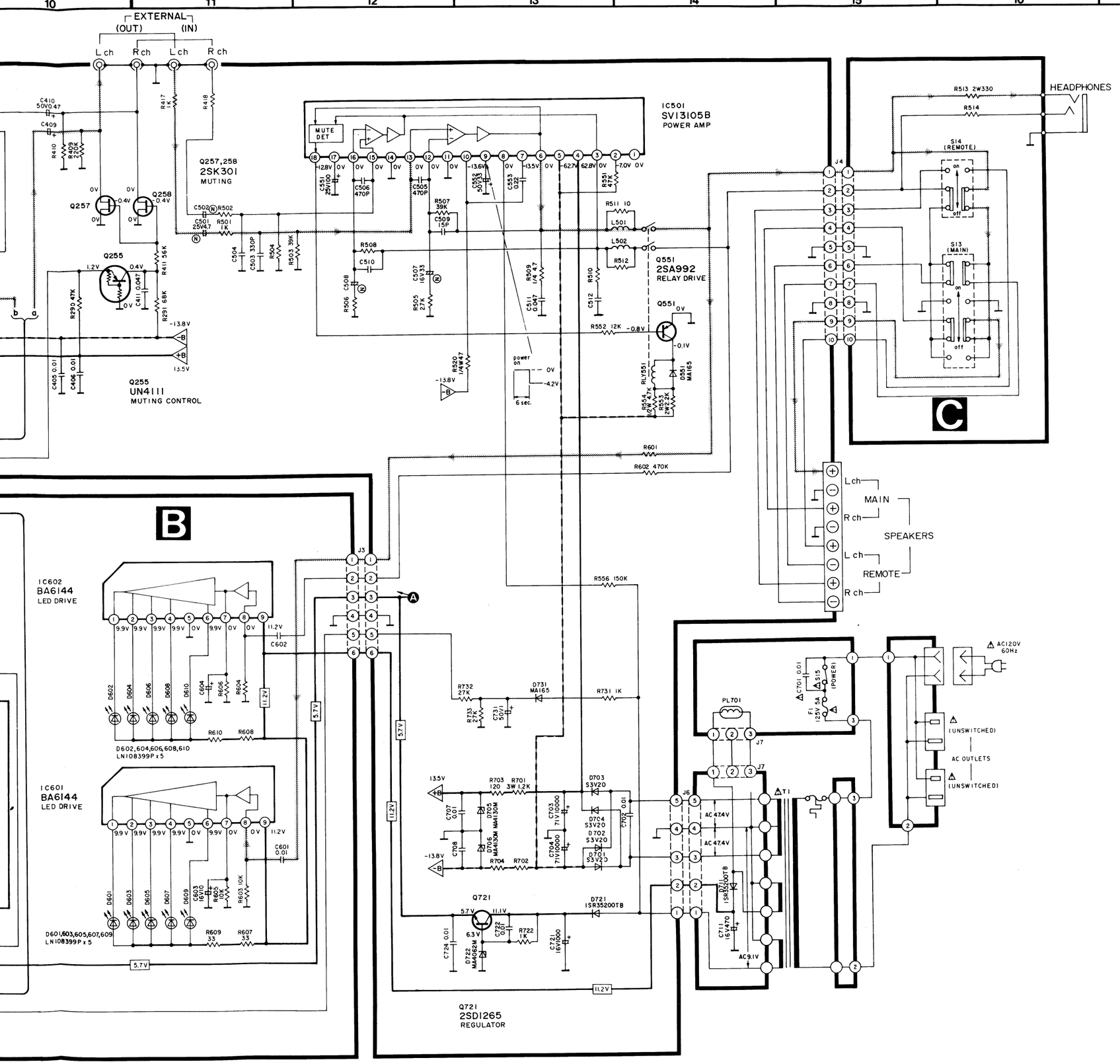
10 11 12 13 14 15 16 17 18 19



■ SCHEMATIC DIAGRAM



IC201	PHONO	TUNER	CD/AUX	TAPE	TV	EQ
X1	on	—	—	—	—	—
X2	—	on	—	—	—	—
X3	—	—	on	—	—	—
X4	on	on	on	on	on	—
X5	—	—	—	—	—	on
X6	on	on	on	—	on	on
X7	—	—	—	—	on	—
X8	—	—	—	on	—	—



Notes:

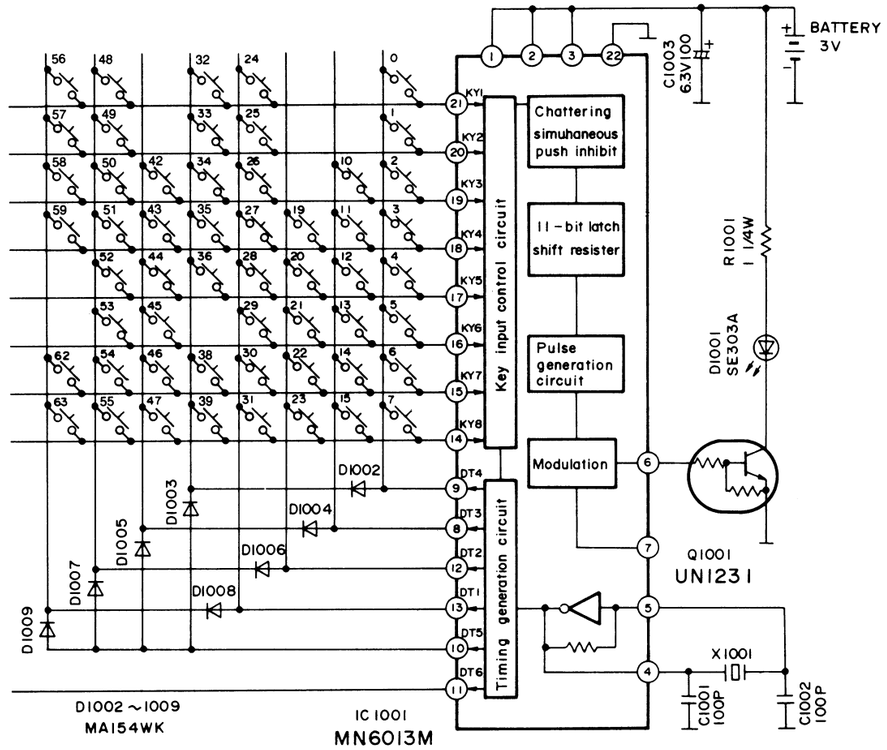
1. S1 : Volume, "**Down**" switch.
2. S2 : Volume, "**Up**" switch.
3. S3 : Balance, "**Right**" switch.
4. S4 : Balance, "**Left**" switch.
5. S5 : Super bass switch.
6. S6 : Input selector, "**Tape1**" switch.
7. S7 : Input selector, "**TV**" switch.
8. S8 : Input selector, "**CD**" switch.
9. S9 : Input selector, "**Tuner**" switch.
10. S10 : Input selector, "**Phono**" switch.
11. S13 : Main speakers switch in "**on**" position.
12. S14 : Remote speakers switch in "**off**" position.
13. S15 : Power switch in "**on**" position.
14. Indicated voltage values are the standard values for the unit measured by the DC electronic circuit tester (high-impedance) with the chassis taken as standard. Therefore, they may exist some errors in the voltage values, depending on the internal impedance of the DC circuit tester.
    Measurement condition:
    Input selector – phono (no signal)
    Volume – Minimum
    Loudness – off
15. Positive (+B) voltage lines
16. Negative (–B) voltage lines
17. Signal lines (L channel)
18. Impedance safety notice:
    Components identified by ⚠ mark have special, characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

*** Caution!**

IC and LSI are sensitive to static electricity. Secondary trouble can be prevented by taking care during repair.

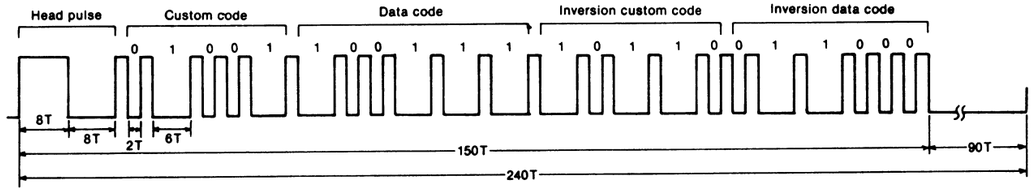
* Cover the parts boxes made of plastics with aluminum foil.
* Ground the soldering iron.
* Put a conductive mat on the work table.
* Do not touch the legs of IC or LSI with the fingers directly.

■ SCHEMATIC DIAGRAM OF REMOTE-CONTROL TRANSMITTER



T=1/f. clk
f. clk=455kHz/192

• KEY NUMBER DESCRIPTION AND DATA CODE (Example key No. 0)



Key No.	Function	Custom code	Data code	Key No.	Function	Custom code	Data code
0	Muting	01001	100111	32	Power TV	00000	100000
1	Volume Down	01001	100101	33	TV Tuning Up	00000	100010
2	Volume Up	01001	100100	34	TV Tuning Down	00000	100011
3	Power	01001	100000	35	TV/VIDEO	00000	001101
4	Tuning 1	01001	010000	36	Deck A/B	01001	000100
5	Tuning 2	01001	010001	38	Rec Mute	01001	000111
6	Tuning 3	01001	010010	39	Rec	01001	001000
7	Tuning 4	01001	010011	42	TV 0	00000	011001
10	VCR 2	01001	110100	43	TV 9	00000	011000
11	Tuning 5	01001	010100	44	VCR ▶▶	00010	000011
12	Tuning 6	01001	010101	45	VCR ◀◀	00010	000010
13	Tuning 7	01001	010110	46	VCR Stop	00010	000000
14	Tuning 8	01001	010111	47	VCR Play	00010	001010
15	Tuning 9	01001	011000	48	TV 8	00000	010111
19	Tuning 0	01001	011001	49	TV 7	00000	010110
20	Turntable Start	01001	001100	50	TV 6	00000	010101
21	Turntable Stop	01001	001101	51	TV 5	00000	010100
22	Deck Pause	01001	000110	52	Tuning Up	00010	100010
23	Deck Stop	01001	000000	53	Tuning Down	00010	100011
24	CD Play	01100	001010	54	TV/VCR	00010	101010
25	CD Stop	01100	000000	55	Power VCR	00010	100000
26	CD Skip ⏮	01100	000010	56	TV 4	00000	010011
27	CD Skip ⏭	01100	000011	57	TV 3	00000	010010
28	Deck ▶▶	01001	000011	58	TV 2	00000	010001
29	Deck ◀◀	01001	000010	59	TV 1	00000	010000
30	Deck Play ▶	01001	001010	62	VCR Pause	00010	000110
31	Deck Play ◀	01001	001001	63	VCR Rec	00010	001000

■ REPLACEMENT PARTS LIST

Notes: * Important safety notice:
Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.
* Bracketed indications in Ref. No. columns specify the area.
Parts without these indications can be used for all areas.

Ref. No.	Part No.	Description
INTEGRATED CIRCUITS		
IC101	AN6557FLC	I.C. EQ AMP.
IC201	TC9163N	I.C. INPUT SELECTOR
IC202	TC9177P	I.C. VOLUME CONTROL
IC203	M50720-408SP	I.C. MICROCOMPUTER
IC301	M5238L	I.C. BUFFER AMP
IC401	M5238L	I.C. BUFFER AMP
IC501	SVI3105B	I.C. POWER AMP.
IC601	SVIBA6144	I.C. POWER LEVEL METER
IC602	SVIBA6144	I.C. POWER LEVEL METER
TRANSISTORS		
Q251	2SA1309Q	TRANSISTOR
Q252	2SA1309Q	TRANSISTOR
Q253	2SA1309Q	TRANSISTOR
Q255	UN4111	TRANSISTOR
Q257	2SK301	TRANSISTOR
Q258	2SK301	TRANSISTOR
Q451	2SK301	TRANSISTOR
Q452	2SK301	TRANSISTOR
Q453	UN4115	TRANSISTOR
Q551	2SA992E	TRANSISTOR
Q721	2SD1265-0	TRANSISTOR
DIODES		
D201	MA165	DIODE
D202	MA165	DIODE
D203	MA165	DIODE
D251	MA165	DIODE
D252	MA165	DIODE
D253	MA165	DIODE
D255	MA165	DIODE
D257	LN054398PH1	DIODE ASS'Y
D258A	MA165	DIODE
D258~264	LN078328P	DIODE ASS'Y
D265	LN018397PH	DIODE ASS'Y
D266	LN054398PH1	DIODE ASS'Y
D268~269	LN054398PH1	DIODE ASS'Y
D270	LN054398PH1	DIODE ASS'Y
D282	MA165	DIODE
D551	MA165	DIODE
D601~609	LN108399P	DIODE ASS'Y
D610	LN108399P	DIODE ASS'Y
D701	SVDS3V40	RECTIFIER
D702	SVDS3V40	RECTIFIER
D703	SVDS3V40	RECTIFIER
D704	SVDS3V40	RECTIFIER
D705	MA4130M	DIODE
D706	MA4130M	DIODE
D711 ⚠	SVD1SR35200A	RECTIFIER
D721 ⚠	SVD1SR35200A	RECTIFIER
D722	MA4062-M	DIODE
D731	MA165	DIODE
VARIABLE RESISTORS		
VR301	EWCXEA011C15	V.R, BASS, TREB
VR302	EWCXEA011C15	V.R, BASS, TREB
THERMISTORS AND VARISTORS		
TH201	RRT104	THERMISTOR
TH202	RRT104	THERMISTOR
COILS AND TRANSFORMERS		
L201	ELEXH1R0MA	COIL
L202	ELEXH1R0MA	COIL
L203,204	ELEXH2R2MA	COIL
L281	ELEXT151KA	COIL
L501	SLQY07G-40	CHOKE COIL
L502	SLQY07G-40	CHOKE COIL
T701 ⚠	SLT5P281	TRANSFORMER
COMPONENT COMBINATIONS		
Z251	EF0FC2004A4	CERAMIC FILTER
LAMPS		
PL701 ⚠	XAMS6Q17C	PILOT LAMP
FUSES		
F1 ⚠	XBA1F50NU14	FUSE, 5A 125V
SWITCHES		
S1	EVQQAC05G	SW
S2	EVQQAC05G	SW
S3	EVQQAC05G	SW
S4	EVQQAC05G	SW
S5	EVQQAC05G	SW
S6	EVQQAC05G	SW
S7	EVQQAC05G	SW
S8	EVQQAC05G	SW
S9	EVQQAC05G	SW
S10	EVQQAC05G	SW
S13	SSH2127	SW
S14	SSH2127	SW
S15 ⚠	ESB8249V	POWER SWITCH
RELAYS		
RY551	SSY126	RELAY

Ref. No.	Part No.	Description
CABINET AND CHASSIS		
1	SBN1032-4	KNOB, BASS,TREB
2	SNE4021	NUT
3	SGYUAV700-KM	FRONT PANEL
3-1	SDU329C	INDICATION PLATE
3-2	SGX7904A	ORNAMENT, SUPER BASS
3-3	SGU555C	TRANSPARENT PLATE
4	SBC666-1	BUTTON, POWER
5	SMP412	ANGLE
6	SBC938	BUTTON, SPEAKER
7	SBC940	BUTTON, SELECTOR
8	SBC945A	BUTTON, VOLUME
9	SMZ321	OPTICAL SHIELD
10	SJJ134B	JACK, HEAD PHONE
11	SBC939	BUTTON, BASS
12	SBC946A	BUTTON, VALANSE
13	SJT391	LUG TERMINAL
14	LN108399P	DIODE ASS'Y
15	LN078328P	DIODE ASS'Y
16	LN054398PH1	DIODE ASS'Y
17	LN018397PH	DIODE ASS'Y
18	XTB3+8G	SCREW
19	SKC1950K991	CABINET
20	SNE2129-1	SCREW

Ref. No.	Part No.	Description
21	SKUUAV700-KM	BOTTOM BOARD
21-1	SKL293	RUBBER
22	SNE2118	SCREW
23	XTW3+8T	SCREW
25	SMC6379	SHIELD COVER
26	XTBS3+8JFZ1	SCREW
27 ⚠	SJS9234B	AC INLET
28 ⚠	SJS9233B	AC OUTLET
29	SJF5812	TERMINAL BOARD, SPEAKER
30	SJF3062-2N	TERMINAL BOARD
31	SJJ141-1	M3 JACK
32	SJS604	CONNECTOR
33	SJF3062-1NK	TERMINAL BOARD
34	SGP7111-7A	REAR PANEL
35	SJS9234A	AC INLET COVER
36	SJS9233A	AC OUTLET COVER
37	SJP9205-2Y	SHORTING PIN
38	SJT30647WL	CONNECTOR
39	SJS50680WL	CONNECTOR
40	SJT3215	TERMINAL PLATE
41	SJT3209	TERMINAL
42	SJS54-1	JACK,SOCKET, (10P)
43	SJT3041	TERMINAL BOARD
44	SJT3101	CONNECTOR
45	SJJ141	M3 JACK

Ref. No.	Part No.	Description
PACKINGS		
P1	SPG6132	CARTON BOX
P2	SPS4714-1	PAD
P3	SPS4715-1	PAD
P4	SPS5032	PAD
P5	SPP723	PROTECTION COVER

Ref. No.	Part No.	Description
ACCESSORIES		
A1 ⚠	SJA172-1	POWER CORD
A2	SJP2272	CORD
A4	UM-4NEP-2S	BATTERY
A5	SQF13086	INSTRUCTION BOOK
A7	SWKUV96KM5	WIRING MATERIAL

■ RESISTORS & CAPACITORS

Numbering System of Resistor

Example:

ERD	25	F	J	101
Type	Wattage	Shape	Tolerance	Value (100Ω)

ERJ	6G	C	J	2R2
Type	Wattage	Shape	Tolerance	Value (2.2Ω)

Numbering System of Capacitor

Example:

ECKD	1H	102	Z	F
Type	Voltage	Value (1000pF)	Tolerance	Peculiarity

ECEA	50	M	R47
Type	Voltage	Peculiarity	Value (0.47μF)

Resistor Type		Wattage	Tolerance
ERD:	Carbon Resistor	10 : 1/8W	F : ±1%
ERC:	Solid Resistor	25 : 1/4W	G : ±2%
ERF:	Incombustible Box-Shaped Wire-Wound Resistor	50 : 1/2W 18 : 1/8W 14 : 1/4W 12 : 1/2W	J : ±5% K : ±10% M : ±20%
ERG:	Metal Oxide-Film Resistor	1 : 1W 2 : 2W	
ERM:	Wire-Wound Resistor	3 : 3W S1 : 1/2W	
ERO:	Superstable Metal Film Resistor	S2 : 1/4W 6G : 1/10W 8G : 1/8W	
ERX:	Metal-Film Resistor		
RRJ: ERJ:	Chip Resistor		

※ Capacity are in microfarads (μF) unless specified otherwise, P=Pico-farads.
※ Resistance are in ohms (Ω), unless specified otherwise, 1K=1,000Ω, 1M=1,000KΩ

Capacitor Type		Voltage	Tolerance
ECCD:	Ceramic Capacitor (Chitacon)	(ECCD, ECKD Type) 1H : 50V DC 2H : 500V DC	K : ±10% M : ±20%
ECKD:	Ceramic Capacitor (Chitabarl)	(ECFD Type) C : 12V DC D : 25V DC	Z : +80, −20%
ECFD:	Semiconductor Ceramic Capacitor	E : 50V DC (ECQ Type)	J : ±5% G : ±2%
ECE□:	Electrolytic Capacitor	05 : 50WV DC 1 : 100WV DC	F : ±1%
ECS□:	Tantalum Fixed Electrolytic Capacitor	(ECE, ECS Type) 0G : 4V 0J : 6.3V 1A : 10V 1C : 16V 1E : 25V 1V : 35V 1H : 50V 1J : 63V 2A : 100V	C : ±0.25pF D : ±0.5pF
ECQ□:	Polystyrenc Film Capacitor		
ECQS:	Polystyrene Film Capacitor		
ECQS:	Polypropylene Film Capacitor		
ECQV:	T.F Capacitor		
ECU□: RCU□:	Chip Capacitor		
ECBT:	Cylindrical Ceramic Capacitor		

Ref. No.	Part No.	Value.
RESISTORS(VALUE,WATTAGE)		
R101	ERDS2TJ391	390 1/4
R102	ERDS2TJ391	390 1/4
R103	ERDS2TJ473	47K 1/4
R104	ERDS2TJ473	47K 1/4
R105	ERDS2TJ271	270 1/4
R106	ERDS2TJ271	270 1/4
R107	ERDS2TJ123	12K 1/4
R108	ERDS2TJ123	12K 1/4
R109	ERDS2TJ184	180K 1/4
R110	ERDS2TJ184	180K 1/4
R111	ERDS2TJ184	180K 1/4
R112	ERDS2TJ184	180K 1/4
R113	ERDS2TJ391	390 1/4
R114	ERDS2TJ391	390 1/4
R203	ERDS2TJ563	56K 1/4
R204	ERDS2TJ563	56K 1/4
R205	ERDS2TJ563	56K 1/4
R211	ERDS2TJ272	2.7K 1/4
R212	ERDS2TJ272	2.7K 1/4
R215	ERDS2TJ222	2.2K 1/4
R216	ERDS2TJ222	2.2K 1/4
R223	ERDS2TJ333	33K 1/4
R224	ERDS2TJ333	33K 1/4
R225	ERDS2TJ103	10K 1/4
R226	ERDS2TJ103	10K 1/4
R227	ERDS2TJ103	10K 1/4
R231	ERDS2TJ472	4.7K 1/4
R251	ERDS2TJ103	10K 1/4
R252	ERDS2TJ105	1M 1/4
R253	ERDS2TJ103	10K 1/4
R254	ERDS2TJ103	10K 1/4
R255	ERDS2TJ104	100K 1/4
R256	ERDS2TJ472	4.7K 1/4
R257	ERDS2TJ682	6.8K 1/4
R258	ERDS2TJ682	6.8K 1/4
R259	ERDS2TJ682	6.8K 1/4
R260 ⚠	ERDS2TJ151	150 1/4
R261	ERDS2TJ221	220 1/4
R262	ERDS2TJ221	220 1/4
R263	ERDS2TJ221	220 1/4
R264	ERDS2TJ221	220 1/4
R265	ERDS2TJ221	220 1/4
R266	ERDS2TJ221	220 1/4
R267	ERDS2TJ221	220 1/4
R268	ERDS2TJ221	220 1/4
R269 ⚠	ERDS2TJ151	150 1/4
R270 ⚠	ERDS2TJ151	150 1/4
R271 ⚠	ERDS2TJ151	150 1/4
R272 ⚠	ERDS2TJ151	150 1/4
R273	ERDS2TJ121	120 1/4
R274	ERDS2TJ103	10K 1/4
R276	ERDS2TJ103	10K 1/4
R277	ERDS2TJ103	10K 1/4
R278	ERDS2TJ103	10K 1/4
R279	ERDS2TJ103	10K 1/4
R289	ERDS2TJ224	220K 1/4
R290	ERDS2TJ473	47K 1/4
R291	ERDS2TJ103	10K 1/4
R291	ERDS2TJ683	68K 1/4
R292	ERDS2TJ103	10K 1/4
R293	ERDS2TJ103	10K 1/4
R294	ERDS2TJ103	10K 1/4
R295	ERDS2TJ103	10K 1/4
R301	ERDS2TJ474	470K 1/4
R302	ERDS2TJ474	470K 1/4
R303	ERDS2TJ474	470K 1/4
R304	ERDS2TJ474	470K 1/4
R305	ERDS2TJ392	3.9K 1/4
R306	ERDS2TJ392	3.9K 1/4
R307	ERDS2TJ392	3.9K 1/4
R308	ERDS2TJ392	3.9K 1/4
R309	ERDS2TJ183	18K 1/4
R310	ERDS2TJ183	18K 1/4
R311	ERDS2TJ332	3.3K 1/4
R312	ERDS2TJ332	3.3K 1/4
R313	ERDS2TJ122	1.2K 1/4
R314	ERDS2TJ122	1.2K 1/4
R315	ERDS2TJ821	820 1/4
R316	ERDS2TJ821	820 1/4
R317	ERDS2TJ223	22K 1/4
R318	ERDS2TJ223	22K 1/4
R321	ERDS2TJ222	2.2K 1/4
R322	ERDS2TJ222	2.2K 1/4
R401	ERDS2TJ471	470 1/4
R402	ERDS2TJ471	470 1/4
R403	ERDS2TJ563	56K 1/4
R404	ERDS2TJ563	56K 1/4
R405	ERDS2TJ682	6.8K 1/4
R406	ERDS2TJ682	6.8K 1/4
R407	ERDS2TJ102	1K 1/4
R408	ERDS2TJ102	1K 1/4
R409	ERDS2TJ224	220K 1/4
R410	ERDS2TJ224	220K 1/4
R411	ERDS2TJ563	56K 1/4
R415	ERDS2TJ824	820K 1/4
R416	ERDS2TJ824	820K 1/4
R417	ERDS2TJ102	1K 1/4
R418	ERDS2TJ102	1K 1/4
R452	ERDS2TJ224	220K 1/4
R453	ERDS2TJ563	56K 1/4
R501	ERDS2TJ102	1K 1/4
R502	ERDS2TJ102	1K 1/4
R503	ERDS2TJ393	39K 1/4
R504	ERDS2TJ393	39K 1/4
R505	ERDS2TJ272	2.7K 1/4
R506	ERDS2TJ272	2.7K 1/4
R507	ERDS2TJ393	39K 1/4
R508	ERDS2TJ393	39K 1/4
R509	ERD25FJ4R7	4.7 1/4
R510	ERD25FJ4R7	4.7 1/4
R511	ERDS2TJ100	10 1/4
R512	ERDS2TJ100	10 1/4
R513	ERG2ANJ331	330 2
R514	ERG2ANJ331	330 2
R520	ERD25FJ470	47 1/4
R551	ERDS2TJ473	47K 1/4
R552	ERDS2TJ123	12K 1/4
R553	ERG2ANJ222	2.2K 2
R554	ERDS1FJ472	4.7K 1/2
R556	ERDS2TJ154	150K 1/4
R601	ERDS2TJ474	470K 1/4
R602	ERDS2TJ474	470K 1/4
R603	ERDS2TJ103	10K 1/4
R604	ERDS2TJ103	10K 1/4
R605	ERDS2TJ103	10K 1/4
R606	ERDS2TJ103	10K 1/4
R607	ERDS2TJ330	33 1/4

Ref. No.	Part No.	Value.
R608	ERDS2TJ330	33 1/4
R609	ERDS2TJ330	33 1/4
R610	ERDS2TJ330	33 1/4
R701	ERG3ANJ122	1.2K 3
R702	ERG3ANJ122	1.2K 3
R703	ERDS2TJ121	120 1/4
R704	ERDS2TJ121	120 1/4
R722	ERDS2TJ102	1K 1/4
R731	ERDS2TJ102	1K 1/4
R732	ERDS2TJ273	27K 1/4
R733	ERDS2TJ273	27K 1/4
R734	ERDS2TJ124	120K 1/4
CAPACITORS(VALUE,VOLTAGE)		
C101	ECCD1H101K	100P 50
C102	ECCD1H101K	100P 50
C103	ECKD1H102PF	0.001 50
C104	ECKD1H102PF	0.001 50
C105	ECEA0JK220	22 6.3
C106	ECEA0JK220	22 6.3
C107	ECFTD682KXL	0.0068 25
C108	ECFTD682KXL	0.0068 25
C109	ECFTD223KXL	0.022 25
C110	ECFTD223KXL	0.022 25
C111	ECEA1HK010	1 50
C112	ECEA1HK010	1 50
C113	ECEA1CKS100	10 16
C114	ECEA1CKS100	10 16
C115	ECKD1H103PF	0.01 50
C201	ECKD1H103PF	0.01 50
C225 ⚠	ECKD1H223PF	0.022 50
C226	ECKD1H473ZF	0.047 50
C231	ECKD1H103PF	0.01 50
C251	ECEA1HN2R2S	2.2 50

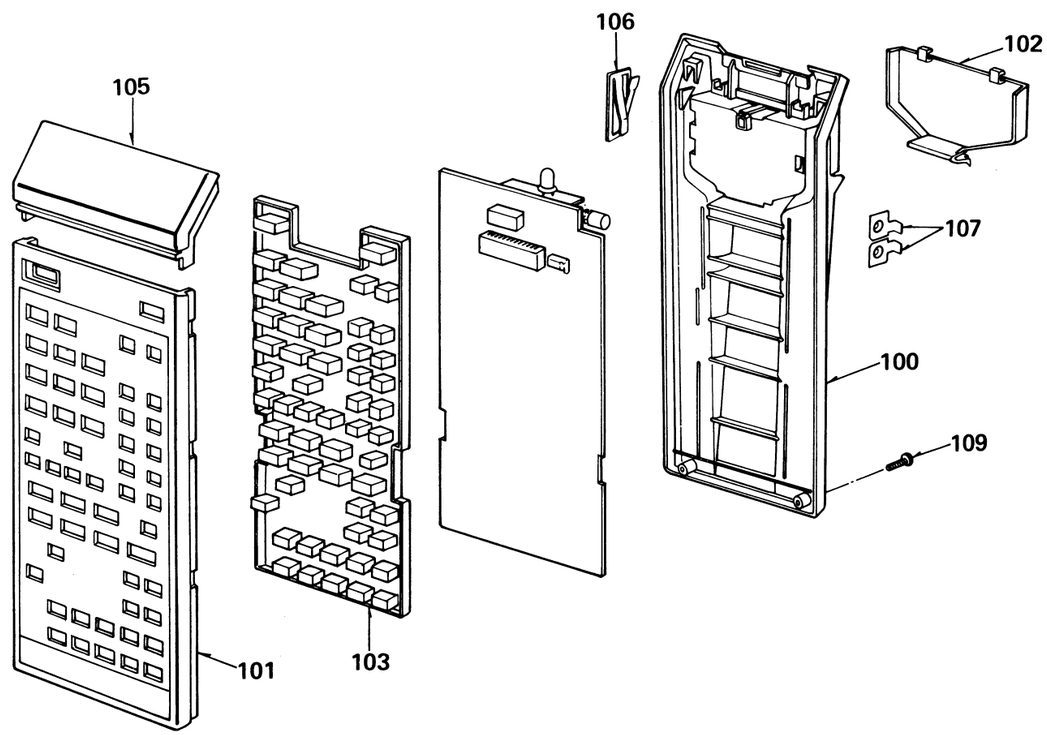
Ref. No.	Part No.	Value.
C252	EECF5R5U473	
C253	ECEA0JU101	100 6.3
C254 ⚠	ECKD1H223PF	0.022 50
C255	ECEA1HK010	1 50
C256	ECBT1H102KB5	0.001 50
C257	ECBT1H102KB5	0.001 50
C287	ECBT1H102KB5	0.001 50
C288	ECBT1H102KB5	0.001 50
C289	ECBT1H102KB5	0.001 50
C291	ECKD1H102PF	0.001 50
C301	ECCD1H150KC	15P 50
C302	ECCD1H150KC	15P 50
C303	ECKD1H221KB	220P 50
C304	ECKD1H221KB	220P 50
C305	ECCD1H100KC	10P 50
C306	ECCD1H100KC	10P 50
C307	ECEA1CKS100	10 16
C308	ECEA1CKS100	10 16
C309	ECFTD123KXL	0.012 25
C310	ECFTD123KXL	0.012 25
C311	ECFTD683KXL	0.068 25
C312	ECFTD683KXL	0.068 25
C313	ECFTD562KXL	0.0056 25
C314	ECFTD562KXL	0.0056 25
C315	ECFTD273KXL	0.027 25
C316	ECFTD273KXL	0.027 25
C317	ECKD1H103PF	0.01 50
C401	ECFTD104KXL	0.1 25
C402	ECFTD104KXL	0.1 25
C403	ECFTD104KXL	0.1 25
C404	ECFTD104KXL	0.1 25
C405	ECKD1H103PF	0.01 50
C406	ECKD1H103PF	0.01 50
C409	ECEA1HKR47	0.47 50

Ref. No.	Part No.	Value.
C410	ECEA1HKR47	0.47 50
C411	ECKD1H473ZF	0.047 50
C413	ECEA1HK010	1 50
C414	ECEA1HK010	1 50
C501	ECEA1EN4R7S	4.7 25
C502	ECEA1EN4R7S	4.7 25
C503	ECKD1H331KB	330P 50
C504	ECKD1H331KB	330P 50
C505	ECKD1H471KB	470P 50
C506	ECKD1H471KB	470P 50
C507	ECEA1CN330S	33 16
C508	ECEA1CN330S	33 16
C509	ECCD1H150KC	15P 50
C510	ECCD1H150KC	15P 50
C511	ECQM1H473JZ	0.047 50
C512	ECQM1H473JZ	0.047 50
C551	ECEA1EGE101	
C552	ECEA1HS330	33 50
C553	ECQM1H224JZ	0.22 50
C560	ECEA0JK470	47 6.3
C601	ECKD1H103PF	0.01 50
C602	ECKD1H103PF	0.01 50
C603	ECEA1CKS100	10 16
C604	ECEA1CKS100	10 16
C701	ECKWNS103ZV	0.01
C702	ECKD2H103PE	0.01 500
C703	ECES71V103VN	10000 71
C704	ECES71V103VN	10000 71
C707	ECKD1H103PF	0.01 50
C708	ECKD1H103PF	0.01 50
C711	ECEA1CU471	470 16
C721	ECEA16V1000	1000 16
C722	ECKD1H103PF	0.01 50
C724	ECKD1H103PF	0.01 50
C731	ECEA1HK010	1 50

REMOTE CONTROL UNIT

Ref. No.	Part No.	Description
INTEGRATED CIRCUITS		
IC1001	MN6013M	I.C.
TRANSISTORS		
Q1001	UN1231	TRANSISTOR
DIODES		
D1001	LN66	DIODE
D1002	MA154WK	DIODE
D1003	MA154WK	DIODE
D1004	MA154WK	DIODE
D1005	MA154WK	DIODE
D1006	MA154WK	DIODE
D1007	MA154WK	DIODE
D1008	MA154WK	DIODE
D1009	MA154WK	DIODE
OSCILLATOR		
X1001	CSB455EB1	455KHZ
RESISTORS		
R1001	ERDS2TJ1R0	CARBON, 1Ω, 1/4W
CAPACITORS		
C1001	ECKD1H101KB	CERAMIC, 100PF, 50V
C1002	ECKD1H101KB	CERAMIC, 100PF, 50V
C1003	ECEA0GK101	ELECTROLYTIC CAPACITOR
REMOTE CONTROL UNIT		
100	UR51VCS430	BOTTOM BOARD
101	UR51VCS429	TOP BOARD
102	UR51EC319	COVER
103	UR51CT625	BUTTON
105	UR51SB320	FILTER
106	URC180TD10D	TERMINAL
107	UR51TD203	TERMINAL BOARD
109	XSS2+10FZ	SCREW

■EXPLODED VIEW(Remote control)



● Accessories

Quartz Synthesizer AM/FM Stereo Tuner

- FM indoor antenna 1 (SSA269M)
- AM loop antenna 1 (SPB1139-1)
- AM antenna holders ..... 2 (SMA231M) (SMA233-1M) (A) (B)
- AC power supply cord 1 (SJA175-1T)
- Stereo connection cable..... 1 (SJPK2203)
- Stabilizer pins 2 (SPB1153)
- Screws ..... 2 (XTN3+10AFZ)

Stereo Integrated Amplifier

- AC power supply cord 1 (SJA172-1)
- Flat cable for remote-control operation..... 1 (SWKUV96KM5)
- Stereo connection cable .. 1 (SJP2272)
- Remote-control transmitter (EUR51153) 1
- Batteries 2 (UM-4NEP-2S)

Stereo Double Cassette Deck

- Stereo connection cables 2 (SJPK2271)
- AC power supply cord 1 (SJA172-1)
- Connection cable for remote-control operation (SJP2257T) 1

AV Surround Processor

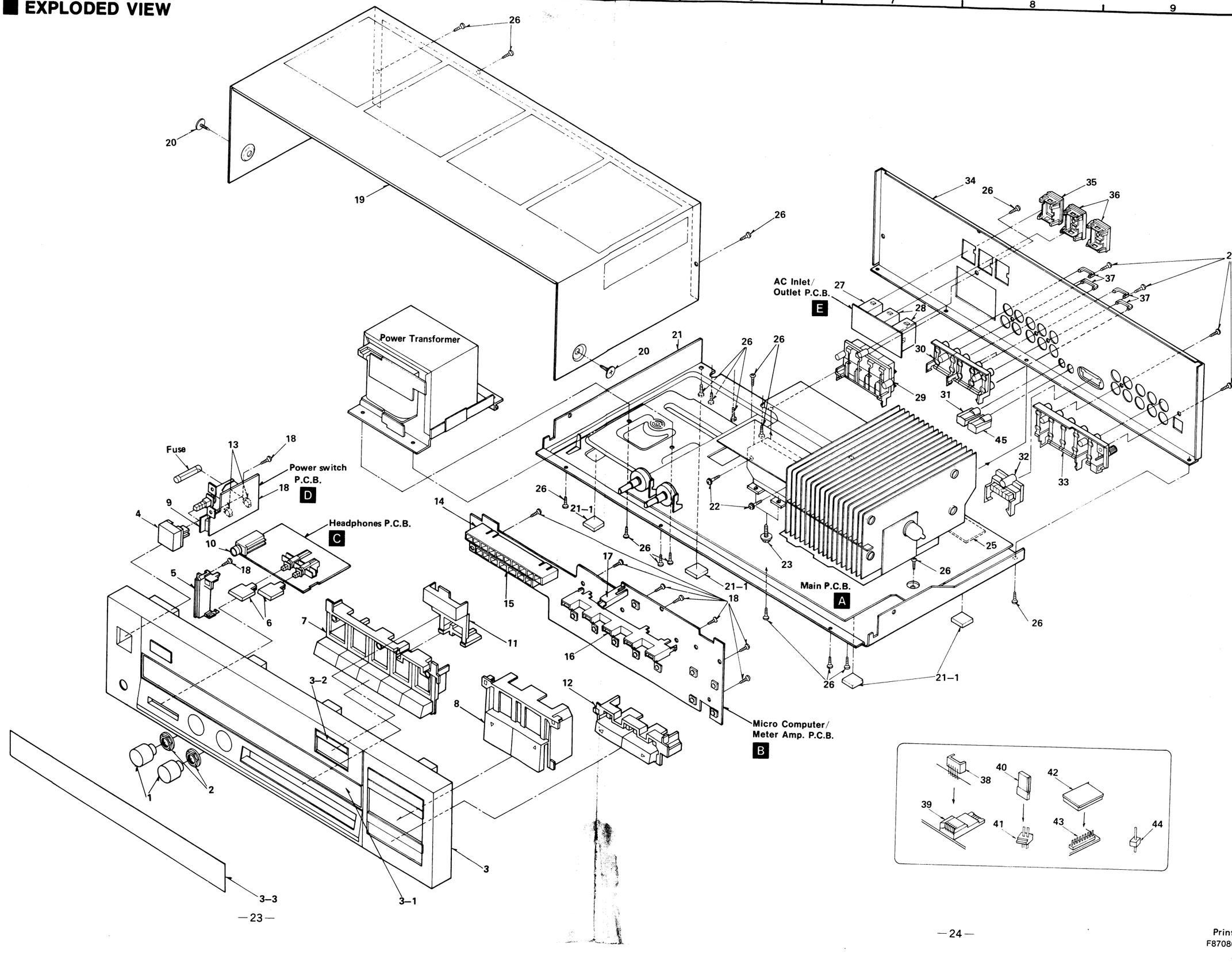
- Stereo connection cables 2 (SJPK2202)
- Video connection cable .. 1 (SJPK2101)

Automatic Turntable System

- AC power supply cord 1 (SJA170)
- Ground wire 1 (SFDLJ11N01E)
- Platter mat 1 (SHOB2)
- Connection cable for remote-control operation .. 1 (SJPB4)
- Stereo connection cable .. 1 (SFDHEQ1N01)

For the TV, VCR, compact disc player, and optional equipment, see their individual operating instructions.

■ EXPLODED VIEW



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